

69/355987

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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>C22C 21/02, 21/04</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 98/38347</b> <b>(43) International Publication Date:</b> 3 September 1998 (03.09.98)
<b>(21) International Application Number:</b> PCT/AU98/00115 <b>(22) International Filing Date:</b> 24 February 1998 (24.02.98) <b>(30) Priority Data:</b> PO 5268 24 February 1997 (24.02.97) AU <b>(71) Applicant (for all designated States except US):</b> CAST CENTRE PTY. LTD. [AU/AU]; c/o Dept. of Mining, Metallurgical Engineering, The University of Queensland, St. Lucia, QLD 4072 (AU). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> BARRESI, Joseph, Giovanni [AU/AU]; 17 Mary Byrant Court, Mill Park, VIC 3082 (AU). COUPER, Malcolm, James [AU/AU]; 49 Oronsay Crescent, Diamond Creek, VIC 3089 (AU). ST JOHN, David, Henry [AU/AU]; 26 Gladstone Street, Indooroopilly, QLD 4068 (AU). EDWARDS, Geoffrey, Alan [AU/AU]; 18 Highview Terrace, Daisy Hill, QLD 4127 (AU). WANG, Hao [CN/AU]; 14/29 Villa Street, Annerley, QLD 4103 (AU). <b>(74) Agent:</b> GRIFFITH HACK; 509 St. Kilda Road, Melbourne, VIC 3004 (AU).		<b>(81) Designated States:</b> AU, JP, KR, NZ, US.  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> FOUNDRY ALLOY  <b>(57) Abstract</b> <p>An aluminium-based alloy having 6.5 – 7.5 wt.% silicon and 0.35 – 0.50 wt.% magnesium as the major alloying elements and a method of manufacturing an article from the alloy are disclosed. The alloy is characterised by a microstructure in which <math>\beta</math> phase (<math>Al_5SiFe</math>) that forms during heat treatment as a transformation product of <math>\pi</math> phase (<math>Al_3Si_2Mg_3Fe</math>) is the sole or predominant iron-containing phase in the alloy.</p>		

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